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10-1-1997

Wright State University College of Engineering and Computer Science Bits and PCs newsletter, Volume 13, Number 8, October 1997

Wright State University College of Engineering and Computer Science

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BITs & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

October 1997 Wright State University Dayton, Ohio 45435 Vol. 13 No. 8

Ohio Governor Appoints Barto as WSU Student Trustee

Ohio Governor George Voinovich, appointed Euvondia Barto, a Computer Engineering major, as Student Member of the Wright State University Board of Trustees. There are two Student Trustees serving on the Board. Student Trustees serve a two-year term, with one new student being named each year.

Students interested in becoming a Student Trustee must submit a resume, transcript, cover letter, and three letters of recommendation to the current student trustees in late winter/early spring quarter. A committee reviews the applications and interviews the prospective candidates, then sends the

applications and interview transcripts to the Governor who makes the appointment.

Euvondia first became interested in the position of Trustee during her term as Student Government representative. She was also President of the Wright Engineering Council.

Euvondia believes that being a Student Trustee is an excellent opportunity to remain involved in campus governance and to become a strong proponent for student



concerns and issues. Some issues and concerns she hopes to see tackled by the Board of Trustees include parking, the University Master Plan,

and Turnpike, the campus' computer networking plan.

Anyone wishing to convey concerns or issues to Euvondia may contact her through Student Government, W024 Student Union, 775-5508.

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Alumni Elected ASM International Fellows

Dennis Dimiduk and James Malas have recently been elected to the rank of Fellow in ASM International, an international professional organization for materials science engineers. Dennis and James are 1980 graduates of Wright State's materials science and engineering program and both work at Wright Laboratory, Wright-Patterson Air Force Base.

ASM International is a very large organization with a membership of approximately 50,000 and only about 1-2% of those members ever attain the status of Fellow. It is very unusual to have two individuals who graduated in the same year from the same B.S. program elected in the same class of Fellows.

Way To Go!

Check Out All The New Faces at WSU



Thomas L. Bazzoli joined the College of Engineering and Computer Science Dean's Office on August 28, 1997, as the

new Assistant Dean for Fiscal Affairs. Tom, recently retired from the U.S. Air Force, hails originally from Wilmington, DE, and now resides in Beaver Creek. His last position in the Air Force was as Head of Information Services at the National Air Intelligence Center at Wright-Patterson AFB, where he was responsible for Library Services, Technical Research Support, and Data Base Modernization.

Tom's Air Force career focused on research management in a wide variety of areas including analytical electron microscopy, atmospheric transport, resonance spectroscopy, aircraft coatings, radiofrequency propagation and data visualization. He has an M.S. in Nuclear Science from the Air Force Institute of Technology and a B.S. in Chemistry from The Citadel in Charleston, SC. Tom hopes to use his broad background to support and advance the robust research efforts within the college.



Michael VanHorn is returning to the College of Engineering and Computer Science as a Senior

Computer Systems Administrator just one year after graduating from WSU with a B.S. in Computer Science. During his year away from the Russ, Mike worked on database

and applications development, and systems administration on the LOGDIS program at Wright Patterson Air Force Base.

Mike will be working on the College's UNIX systems, as well as being the head Webmeister guy and the College's Mac-guru. He says he learned a lot in the year he was away (during which he also got married and bought a used 486), but is "happy to be living in the Russ Building again." While a student at WSU, Mike worked in the College as a Computer Support Assistant, so many of you will already be familiar with him.



Stephen P. Carl has joined the Department of Computer Science and Engineering as Instructor.

Mr. Carl obtained his M.A. in computer science from University of Texas at Austin (UTA) in 1996. He also has a B.S.E.E. in electrical engineering from Rice University. Prior to coming to Wright State, Mr. Carl was a teaching assistant in the Computer Science Department at UTA and did some private consulting work. At WSU, Mr. Carl will be teaching CS 240, CS 241, and possibly CS 242 or a class in Java.



Ronald F. Taylor joined the Department of Computer Science and Engineering as Instructor. Mr. Taylor has a

Ph.D. in mechanical engineering from the University of Dayton, an M.S. in applied mathematics from

Wright State University, and an A.B. in mathematics and physics from Wilmington College. Prior to coming to WSU, Mr. Taylor worked at WPAFB, University of Dayton Research Institute, and Sinclair Community College.

Also joining the Department of Computer Science as a Visiting Scholar/Researcher is **Wushour Slamu**. He has received a scholarship from the National Education Commission of China, China Scholarship Council (CSC) and will be visiting as part of an exchange program for one year. Wushour is presently a Professor and the Dean of the Computer Science Department at Xinjiang University, Urumqi, P.R. China. His main research interests are computer networks and speech recognition techniques.

Maher S. Amer has joined the Department of Mechanical and Materials Engineering.



He received a B.Sc. in civil engineering from Alexandria University, Egypt, and a Ph.D. in materials engineering from Drexel University. Before joining the Wright State University faculty, Dr. Amer worked as a Post-Doctoral Research Associate at Drexel University, Rensselaer Polytechnic Institute, and University of Delaware.

Dr. Amer's research interests include Raman spectroscopy, polymers and their composites, and micro-mechanics of multi-phase materials. His teaching interests are centered around utilization of multimedia techniques in engineering education.

Who's New continued on Page 3

Robot Refiners Required

The College of Engineering and Computer Science is looking for seniors and graduate students to work on the Autonomous Ground Vehicle, also known as the Raider Robot. The Raider Robot is a continuing project in which a golf cart has been modified so that it can navigate a course marked by white lines and avoid obstacles as they occur.



possibly deliver. In fact, my work with this project led me to my current co-op position with the U.S. National Highway Traffic Safety Administration."

Enthusiastic students are needed to finish this project in time to compete in the 1998 International Ground Robotics Competition, which will be held in Detroit, MI, in May, 1998. If you have a competitive drive and would relish an opportunity to assist in the design and construction of a challenging project, then check out the Raider Robot.

Greg Bartell, EE, a member of last year's Autonomous Ground Vehicle team states that "it was a fantastic experience. The work involved with the project more than complemented my class work. I gained more practical electronics and real-world design experience through working on this project than any class could

Anyone interested in working on this project should contact Dr. Russell Hannen at 775-5183.

Who's New—Continued



Sharmila Mukhopadhyay has joined the Department of Mechanical and Materials Engineering.

Dr. Mukhopadhyay received her B.S. and M.S. degrees from Indian Institute of Technology, Kharagpur, India and her Ph.D. from Cornell University. Prior to joining WSU, she worked as a post-doctoral fellow at Rutgers University and a faculty member at Polytechnic University.

Dr. Mukhopadhyay's research interests include surfaces and interfaces of solids. At WSU, she will be working on materials such as, composites, surface-engineered machine parts and high temperature electronic devices.

EE Course Schedule & Curriculum Changes

- ☛ Students choosing Design Sequence I, Electronic Circuits, may complete either Linear Integrated Circuits (EE 444; F97) or Pulse and Digital Circuits (EE 499; W98) for the first course listed in the sequence.
- ☛ The linear systems prerequisite for Numerical Methods (EE 425) is changed from Linear II (EE 322) to Linear I (EE 321).
- ☛ Electromagnetics (EE 345) will be offered F97 in the evening and S98 in the daytime. There will be no W98 offering.
- ☛ Communication Theory (EE 421) will be offered F97 in the daytime and W97 in the evening. There will be no S98 offering.

BITs & PCs is a monthly newsletter published by the College of Engineering and Computer Science to inform students about activities, news, opportunities and changes occurring in the College. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities.

The current issue of *BITs & PCs* is available on the World Wide Web at <http://www.cs.wright.edu/info/bits&pcs.html>. Copies are also available in the College office, any Department office, or the Student Club Room.

The next issue will be published the week of November 3, 1997. To submit items for this issue, please phone the College of Engineering and Computer Science, 405 Russ Engineering Center, at 937/775-5001, or E-Mail kthis@cs.wright.edu by October 17, 1997.

FACULTY FACTS

A.A.S. Awwal, Ph.D., CSE, has received funding in the amount of \$22,085 from Zybron Optical Electronic, Inc., for his proposal entitled "Pattern Recognition and Control of Automated IR Images." ■

Nathan G. Brannon, graduate student, HFE, will present his paper entitled "Modeling and Analysis of Supervisory Control Tasks in Wastewater Management" and will be a session co-chair at the IEEE International Conference on Systems, Man, and Cybernetics, in Orlando, Florida, October 12-15, 1997. ■

C. L. Philip Chen, Ph.D., CSE, has received funding in the amount of \$22,000 from Technical Management Concepts, Inc., for his proposal entitled "Orthogonal Functional Neural Network."

Dr. Chen also gave a departmental colloquium "Self-Architecting Neural Networks and Applications" to the Department of Mathematics and Computer Science, University of Akron on September 12, 1997. ■

Jer-Sen Chen, Ph.D., CSE, has received funding in the amount of \$25,000 from Research & Development Laboratories for his proposal entitled "Perception Based Video Compression Algorithms." ■

Fred Garber, Ph.D., EE, has received funding in the amount of \$89,000 from USAF Wright Laboratory for his proposal entitled "Automatic Target Recognition Systems." ■

Oscar Garcia, Ph.D., CSE, has received funding in the amount of \$889,000 from the Ohio Board of Regents for the Information Technology Infrastructure. He has also received funding in the amount of \$150,000 from The Ohio State University Research Foundation,

Ohio Board of Regents, for the Ohio Computing and Communications ATM Research Network. ■

A. Ardeshir Goshtasby, Ph.D., CSE, has received funding in the amount of \$15,000 from the National Science Foundation for his proposal entitled "Picture Retrieval System." He has also received funding in the amount of \$10,000 from the Ohio Aerospace Institute for his proposal entitled "Computer Assisted Minimally Invasive Surgery." ■

Ramana Grandhi, Ph.D., ME, has received additional funding in the amount of \$40,000 from the National Aeronautics and Space Administration for his proposal entitled "Reliability Based Structural Optimization."

Dr. Grandhi has also received additional funding in the amount of \$49,558 from the National Science Foundation for his proposal entitled "Multi-Objective Design System" and additional funding in the amount of \$66,694 from USAF Wright Laboratory for his proposal entitled "Object-Oriented Multi-disciplinary Design." ■

Lang Hong, Ph.D., EE, has received additional funding in the amount of \$99,203 from USAF Wright Laboratory for his proposal entitled "Multiplatform Cooperative Fire Control." ■

Rick Koubek, Ph.D., BHE, has been named Associate Editor for the *International Encyclopedia of Ergonomics and Human Factors*, to be published by Taylor & Francis. ■

Krishna Naishadham, Ph.D., EE, was elected to the status of Senior Member in IEEE. Attainment of Senior Membership is based solely on the candidate's professional standing as evidenced by research

contributions. Less than 10% of the total membership in IEEE achieve this level. Dr. Naishadham has also been an elected Full Member of the prestigious URSI (French acronym for International Union of Radio Science) since 1994.

In addition, Dr. Naishadham has been invited to be a Senior Visiting Research Scholar and spend six weeks at Sydney University, Australia. As part of this visit, he will collaborate with Dr. Karu Esselle on computer modeling of dielectric resonator antennas for satellite communications and present to several institutions, including the Sydney IEEE Antennas Chapter and Mitec Microwaves, Inc., Melbourne. His visit is sponsored by the Australian Research Council and the U.S. National Science Foundation. ■

Sundaram Narayanan, Ph.D., BHE, has received funding in the amount of \$25,000 from Research and Development Laboratories for his proposal entitled "Architecture for Airbase Logistics Modeling." ■

T.K. Prasad, Ph.D., CSE, has received funding in the amount of \$17,000 from the University of Cincinnati for his proposal entitled "VHDL-AMS: Parser and Interface." ■

David Reynolds, Ph.D., BHE, has received funding in the amount of \$20,000 from the Department of Transportation for his proposal entitled "Non-Frangible Pedestrian Leg Form Impactor." ■

Arnab Shaw, Ph.D., EE, has received additional funding in the amount of \$19,657 from Sverdrup Technology, Inc., for his proposal entitled "Algorithms for High-Range Resolution Automatic Target Recognition." ■

continued on Page 6

Student Government Report

Hello, and welcome back for another exciting year! I hope everyone is getting back into the swing of classes after having the summer off. There are a lot of things going on in the College and the university. The student clubs in engineering are starting to plan activities and are looking for new members to participate. See below for information about the clubs.

You can also check the showcases along the wall outside 163 Russ (the

club room). Each club has its own showcase for posting updated information about meetings and events. In addition, a complete list of engineering student clubs will be posted in the Student Government showcase (same location).

If you are interested in becoming involved in various aspects of university life, you might be interested in becoming a student member of a university committee. These committees are a great way

for students to have a voice in university policies and procedures. If you are interested, please contact the Student Government office at X5509 or stop by W024 Student Union. As always, if you have any questions, concerns, or comments, please feel free to call me at X5031 or X5509, or send me an E-mail at s002jsg@alpha.wright.edu.

Thank you and have a great quarter!

Jeffrey Gardner

Amateur Radio Club (ARC)
Contact Chris McCall
s004cnm@discover.wright.edu

American Institute of Aeronautics and Astronautics (AIAA)
Contact Dr. Ken Cornelius (advisor)
775-5091 or kcorn@cs.wright.edu

Association of Computing Machinery/Institute of Electrical and Electronics Engineers-Computer Society (ACM/IEEE-CS)
Contact Euvondia Barto
s015emb@discover.wright.edu

American Society of Metals (ASM)
Contact Rob Fecke
feckerm@ml.wpafb.af.mil

American Society of Mechanical Engineers (ASME)
Contact Dr. Mitch Wolff (advisor)
775-5141 or mwolff@cs.wright.edu
Next meeting is tentatively planned as a tour of WPAFB facilities followed by a general organizational meeting, election of officers, and free pizza.

Biomedical Engineering Society (BMES)
Contact Kim Alexander
775-5507

Human Factors and Ergonomics Society (HFES)
Contact Cody Schaff
cschaff@cs.wright.edu

Institute of Electrical and Electronic Engineers (IEEE)
Contact Dr. Krishna Naishadham (advisor)
775-5057 or knaish@cs.wright.edu

National Society of Black Engineers (NSBE)
Contact Sam Omolewu
s001soo@discover.wright.edu
NSBE will soon schedule an organizational meeting to identify officers and upcoming events such as speakers, tours, and conference participation.

Society of Automotive Engineers (SAE)
Contact Randall Knick
s007rlk@discover.wright.edu

Society of Women Engineers (SWE)
Contact Kristen Huener
s009kjh@discover.wright.edu

Tau Beta Pi National Engineering Honor Society (TBP)
Contact Ethan Frazier
efrazier@cs.wright.edu

Wright Engineering Council (WEC)
Contact Matt Stack
s043mls@discover.wright.edu

The above club representatives, with the exception of the advisors, may also be reached through the Student Club Room, 163 Russ, 775-5031.

Also, don't forget to check the glass cases outside 163 Russ for the most current information on each club's meeting dates and events.

SHAPE THE FUTURE — GET INVOLVED!

Faculty Facts Continued

Raymond Siferd, Ph.D., EE, has received funding in the amount of \$40,000 from Wright Laboratory for his proposal entitled "Design Library Function Generator." 🐼

Raghavan Srinivasan, Ph.D., ME, was elected as the 1997-98 Vice President/President-Elect of Alpha Sigma Mu, the International Professional Honor Society for Materials Science and Engineering.

Dr. Srinivasan has also received \$25,000 funding from Research and Development Laboratories for his proposal entitled "Models for Microstructural Evolution" and additional funding in the amount of \$69,875 from AdTech Systems Research, Inc., for his proposal entitled "Titanium Aluminide for Automotive Applications." 🐼

Thomas Sudkamp, Ph.D. CSE, has received \$50,000 funding from the U.S. Army Research Laboratory for his proposal entitled "Combining Domain Expertise & Learning Algorithms with Fuzzy Models." 🐼

Scott Thomas, Ph.D., ME, has received funding in the amount of \$25,000 from Research and Development Laboratories for his proposal entitled "Copper-Ethanol Heat Pipes with Spiral Grooves." 🐼

Karen Tomko, Ph.D., CSE, has received \$25,000 funding from Research & Development Laboratories for her proposal entitled "3D Navier-Stokes Equation." 🐼

Isaac Weiss, Ph.D., ME, has received additional funding in the amount of \$2,425 from G. W. Jackson &

Associates and MetLab, Division Metallurgical Services, Inc., for his Materials Analysis project. 🐼

Mitch Wolff, Ph.D., ME, was awarded a 1997 Collaborative Core Research Phase I Project for his proposal entitled "Design and Optimization of High Speed Turbomachinery Transient Pressure Instrumentation" (with GE Aircraft Engines, Allison Engine Company, and Air Force Research Laboratory).

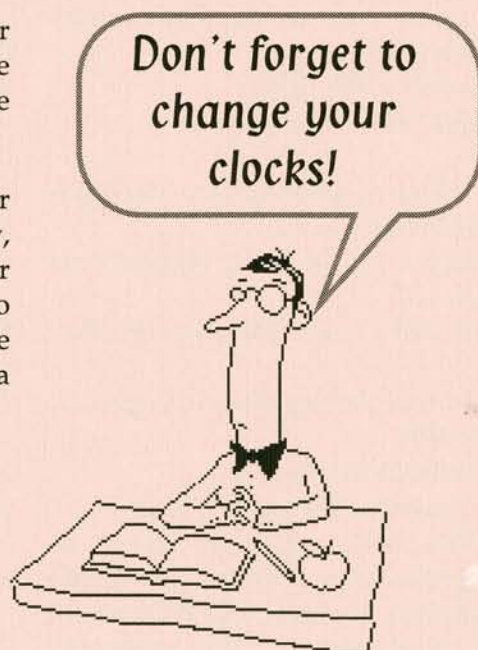
Dr. Wolff has received \$25,000 funding from Research and Development Laboratories for his proposal entitled "Turbomachinery Component Design Systems" and \$34,979 funding from Universal Technology Corporation for his proposal entitled "Test and Evaluation of Miniature Pressure Transducers." 🐼

Ty D. Upp says

Don't forget to reset your clocks—especially that one with the alarm on it. Daylight Savings Time ends on October 26 at 2:00 a.m.

So, on Saturday, October 25, (or for many of you students, Sunday, October 26) be sure to set your clocks back one hour before you go bed. Remember, that's **BACK** one hour which means, we get an extra hour of sleep! Hooray!

Thanks for your cooperation.



Ty D. Upp is a regular feature in BITs & PCs. faculty, staff, and students are welcome to submit prospective topics for Ty D. Upp to address in this column. Just contact kthis@delta.cs.wright.edu or stop by the Dean's Office at 405 Russ to submit your suggestions.



Fritz and Dolores Russ
Engineering Center

Bits & PCs
College of Engineering and
Computer Science
Wright State University

Dean
James E. Brandeberry, Ph.D., P.E.

Editor and Staff Writer
Karil S. This

Submit questions, articles and ideas to Editor, 405 Russ Engineering Center. The College of Engineering and Computer Science reserves the right to edit all material for publication.


SCHOLARSHIPS & FELLOWSHIPS

The Society of Women Engineers is seeking qualified applicants for its **1998 Spring Scholarship Program**. Fifty-six scholarships in amounts varying from \$1,000.00 to \$5,000.00 and totaling more than \$75,000.00 will be awarded.

All SWE scholarships are open only to women majoring in engineering or computer science in a college or university with an ABET-accredited program or in a SWE-approved school, and who will be a sophomore, junior, senior, or graduate student during the academic year the grant is awarded. Applicants must have a GPA of 3.5/4.0 or above.

A committee of engineers representing diverse fields and not affiliated with an engineering school will judge the applications.

Application deadline is February 1, 1998. Applications are available in the Dean's Office, 405 Russ.



The 1998 Integrated Manufacturing Predoctoral Fellowships Program is seeking applicants for 12 fellowships for 3 years of full-time study toward a Ph.D. in an area related to integrated systems of manufacturing including, but not limited to, large scale systems and integration of product design with manufacturing processes. Fellowship awards provide an annual stipend of \$20,000 and a cost-of-education allowance of up to \$15,000.

Applicants must possess a master's degree by the beginning of Fall 1998, be admitted to a doctoral program prior to Fall 1998, or have professional industrial experience equivalent to a master's degree. Applicants must intend to work toward a Ph.D. degree in a program related directly to an integrated

approach to manufacturing and processing. Applicants must be U.S. citizens or permanent resident aliens.

Application deadline is December 5, 1997. Information and applications are available from:

**The Fellowship Office
National Research Council
2101 Constitution Ave.
Washington, DC 20418
202/334-3419
FAX 202/334-3419
E-mail: infofell@nas.edu
<http://fellowships.nas.edu>**



The National Science Foundation (NSF) 1998 Graduate Research Fellowship Program will award approximately 1,000 new Graduate Research Fellowships and Minority Graduate Fellowships to support graduate study in science, mathematics, and engineering.

Fellowships are awarded for graduate study leading to research-based master's or doctoral degrees in the fields of science, mathematics, and engineering supported by the NSF. Applicants must be citizens, nationals, or permanent resident aliens of the U.S.

Separate competitions are conducted for Graduate Fellowships and Minority Graduate Fellowships, each with additional awards offered for women in engineering and computer and information science. Minority Graduate Fellowships are available to ethnic minority groups that traditionally have been under-represented in the advanced levels of the nation's science and engineering talent pool.

Application deadline is November 6, 1997. Information and applications are available at:

NSF Graduate Research Fellowship Program

ORAU

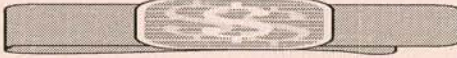
P.O. Box 3010

Oak Ridge, TN 37831-3010

423/241-4300

FAX: 423/241-4513

E-Mail: nsfgrfp@orau.gov



The Link Foundation Energy Fellowship Program is currently accepting applications. Program objectives are to foster energy research, to enhance both theoretical and practical knowledge and application of energy research, and to disseminate the results of that research through lectures, seminars, and publications.

Applications to the Foundation in the form of a research proposal will result in awards to doctoral students in academic institutions. The award will consist of an \$18,000 grant—\$14,500, which may be used for academic year and summer stipend; \$2,500 for expenses associated with research; and \$1,000 to defray the publication costs of research results.

Preference will be shown to proposals dealing directly with energy and which explore ideas not yet fully tested, rather than further development of existing programs.

Proposals deadline is December 1, 1997. For applications and guidelines, write to:

**Link Foundation Energy
Fellowship Program**

**Brian J. Thompson, Administrator
c/o Center for Governmental
Research, Inc.**

**37 South Washington Street
Rochester, NY 14608-2091**

SCHOLARSHIPS & FELLOWSHIPS

The National Research Council plans to award approximately 25 **Ford Foundation Postdoctoral Fellowships for Minorities** to provide a year of continued study and research for Native Americans, Alaskan Natives, Black/African Americans, Mexican Americans/Chicanas/Chicanos, Native Pacific Islanders, and Puerto Ricans.

In a national competition, fellows will be selected from among recent doctoral recipients who show greatest promise of future achievement in academic research and scholarship in higher education. The fellowship program is open to U.S. citizens engaged in or planning a teaching and research career and who have held a Ph.D. or Sc.D. degree for no more than seven years.

Awards will be made in research-based programs in behavioral and social sciences, physical sciences, life sciences, humanities, engineering, mathematics, and education, or interdisciplinary programs composed of two or more eligible disciplines.

Application deadline is January 5, 1998. Information and applications are available through:

Fellowship Office
National Research Council
2101 Constitution Ave.
Washington, DC 20418
202/334-2872
E-mail: infofell@nas.edu
<http://fellowships.nas.edu>

The National Research Council is also accepting applications for approximately 50 Predoctoral Fellowships and 29 Dissertation Fellowships. These fellowships will be awarded in a nationwide competition sponsored by the Ford Foundation and will be administered through the National Research Council.

Awards will be made for study in research-based doctoral programs in the behavioral and social sciences, engineering, mathematics, physical sciences and life sciences, and humanities, or for interdisciplinary programs composed of two or more eligible disciplines.

Applicants must be U.S. citizens or nationals who are a member of one of the following ethnic minority groups: Native Americans, Alaskan Natives, Black/African Americans, Mexican Americans/Chicanas/Chicanos, Native Pacific Islanders, or Puerto Ricans.

The application deadline is November 15, 1997.

Information and applications are available through:

Fellowship Office
National Research Council
2101 Constitution Ave.
Washington, DC 20418
202/334-2872
E-mail: infofell@nas.edu
<http://fellowships.nas.edu>

The American Association of University Women (AAUW) is currently accepting applications for the **Selected Professions Fellowships Program** for the 1998-99 academic year.

Fellowships will be awarded on an annual basis to female scholars preparing to enter designated professions in which women are historically underrepresented. In 1997-98, the program awarded more than \$370,000 in fellowships to approximately 43 women. The award distribution for 1998-99, is expected to remain at a consistent level. Selected Professions Dissertation Fellowships are also available.

Applicants must be U.S. citizens or permanent residents. In addition, they must be entering their final year of graduate or professional study in an eligible discipline in the 1998-99 academic year.

The application deadline for the Selected Professions Fellowship Program is January 6, 1998.

The application deadline for the Selected Professions Dissertation Fellowship Program is November 17, 1997.

Applications and supporting materials may be obtained from the Dean's Office, 405 Russ.

REMINDER — Faculty Workshop and Luncheon — REMINDER

The College Teaching Committee has arranged for a very distinguished visitor, Dr. Robert G. Quinn, from Drexel University to join us on Friday, October 17 for a Luncheon and Workshop. His presentation is

entitled "E4—The Genesis of a New Engineering Curriculum.

In addition, two coffee talks will be held at 9:00 and 10:00 A.M., for those involved in department or college curriculum committees or others that

may have an interest in spending additional time with Dr. Quinn.

If you would like to attend one of these sessions, please contact Dolores Davis at 775-5009—space is limited.

EMPLOYMENT OPPORTUNITIES

Simulation Technologies, Inc. (STI) has part-time and full-time positions available for individuals seeking work experience and training in technical fields. STI offers flexible hours and competitive salaries. Applicants must currently be pursuing or possess a technical degree. C/C++ experience preferred. U.S. citizenship required.

STI is an equal opportunity employer. Please send resume and cover letter specifying part-time or full-time employment to:

STI
Mid-City Station
P.O. Box 3
Dayton, OH 45402
or e-mail: bdavis@stiusa.com

InfoScribe Technologies Ltd. is looking for juniors, seniors, or graduate students in EE, CEG, or CS who are planning on graduating after Fall 1998. Ideal applicants should possess knowledge of electrical engineering techniques and good programming skills.

Multiple positions are available that require an array of skills from graphic design to hardware interfacing. Position can lead into full-time position after graduation. Interested individuals should contact Stephen Adams at istl@concentric.net.

Frontier Applied Sciences has an immediate need for personnel to fill the following positions:

Programmer/Analyst: a full-time position which requires an Associate degree with a B.S. preferred. Experience in any combination of the following areas is desired:

- ◆ Develop Websystems interactive with databases using SQL.
- ◆ CGI scripting
- ◆ HTML
- ◆ Java Scripting
- ◆ 4GL development tools

Data Analyst: a full-time position which requires an Associate degree with a B.S. preferred. Applicants should have experience in database (preferably X-Base) and database programming. This position will oversee data entry operations.

Interested individuals should send resume to:

Frontier Applied Sciences
5100 Springfield Pike
Suite 401
Dayton Ohio 45431-1264
Phone: (937) 256-9464 (John Evans or Doug Streitenberger)
FAX: (937) 256-9057
E-Mail: resume@Dayton.FES.COM

SOCHE Student Support Program has the following positions available at WPAFB Materials Laboratory.

Fatigue Crack Growth of Advanced MMC's (Project 27): This position involves evaluating the fatigue crack growth behavior of advanced metal matrix composite materials under typical service conditions. It also includes assisting in experiments, collecting and analyzing data to determine the damage accumulation and crack growth rate as a function of the number of applied cycles, evaluating the effects of test frequency, temperature, stress ratio, stress level, and plotting results for engineering evaluation and presentation. An ideal opportunity for computer science or engineering majors, or other engineering majors with strong computer skills.

Metallic Composites (Project 22): The student will analyze the structure and properties of titanium intermetallic alloys and their composites, evaluate the effects of stress and environment on interface properties, and determine the effects of composite processing on fiber properties. An ideal opportunity for material science majors.

Picosecond Laser Ultrasonic System (PLUS) Support (Project 79): The student will acquire data from the PLUS system by starting the system, aligning the laser beams, and running the labview-based data acquisition software. Other duties include improving the signal to noise ratio by measuring the RMS noise, comparing this noise with the theoretical shot noise limited performance, identifying sources of additional noise, and developing circuits or experimental techniques to eliminate these sources, developing motion control software and thermal wave experiments which requires the ability to develop Labview routines. Experience with C and C++ programming desired for the development of software experiment models/simulations.

All SOCHE positions are open to undergraduate or graduate students who are currently seeking a degree and in good standing at their educational institution. Candidates must be U.S. citizens. SOCHE positions offer career-related work experience, research opportunities, flexible schedules, and a varying pay rate.

For further information or to apply for these positions, contact the SOCHE Student Support Program at 937/259-1375.

EMPLOYMENT OPPORTUNITIES

Digit, Inc., located in Franklin, OH, is looking for a draftsman/designer with CAD experience. Knowledge of CADKEY is beneficial, but may be learned on the job. Position is part-time with potential to grow into full-time. Personal transportation is essential.

To apply, FAX a resume to 513/746-5103 or call Bill Nutley at 513/746-3800 to schedule an interview.

Proctor and Gamble Company has several opportunities for summer or December graduates in the area of Management Systems. Degrees in computer science, computer engineering, information systems, quantitative analysis, statistics, or electrical engineering are acceptable.

Candidates must be U.S. citizens or be permanent U.S. residents and have demonstrated superior leadership and achievement. Resumes should be sent to:

The Procter & Gamble Company
Judith Molique, U.S. Recruiting
P. O. Box 599, TN-4
Cincinnati, OH 45201-0599

Climax Research Services, Farmington Hills, MI, has metallurgical engineering co-op positions available. Students will be exposed to a wide range of materials, processes, and metallurgical evaluations, representing the entire cross-section of CRS business. Materials such as case and wrought aluminum, cast iron, steels, magnesium, and copper alloys will be evaluated.

The responsibilities of the student will depend on past experience, relevant college courses completed, and progress during the term of employment. The student will work under the direction of several CRS engineers and will report to the Engineering Manager. The student will be involved in many aspects of sample preparation, physical and mechanical testing, requesting technician work, reporting of results, and interfacing with customers.

The student will be assigned his/her own projects and will be expected to initiate and complete them in a timely manner, including report writing and client invoice request preparation. At the conclusion of the assignment, the student will have

gained valuable experience in engineering problem solving, providing a strong base for future education and employment in metallurgical applications.

Students must have at least sophomore status and have completed preliminary metallurgical courses. Terms of employment vary between 6 and 12 months. Other desirable skills/abilities include: IBM-PC word processing skills (esp. WordPerfect or Word), spreadsheet experience (esp. Excel), technical report writing, intellectual curiosity, good self-management skills, and an outgoing personality.

CRS is a service-based business and co-op students will often interact directly with CRS customers. Co-op positions may result in full-time employment upon completion of degree. Applicants should send a resume and transcripts (with grades) to:

Dr. John M. Tartaglia, CRS
Engineering Manager
Climax Research Services
39205 Country Club Drive, C-40
Farmington Hills, MI 48331
Phone: 248/489-0720



Summer 1997 Dean's List



Biomedical Engineering

Anthony J. Ewald

High Honors

Computer Engineering

Moez M. Ben-Azzouz

Highest Honors

Matt K. Fox

Highest Honors

Benjamin Sebastian

Highest Honors

Richard M. Thompson

High Honors

Computer Science

Maier M. Aldineh

Honors

Shawn M. Kitchin

High Honors

Electrical Engineering

Richard G. Adams

Honors

Daniel J. Drescher

Honors

Jennifer A. Foley

Highest Honors

Ethan A. Frazier

Highest Honors

Adam C. Marcotte

High Honors

Engineering Physics

Keith E. Henseler

Highest Honors

Dennis E. Walker

Highest Honors

Mechanical Engineering

Brian H. McMullen

High Honors

Melissa S. Young

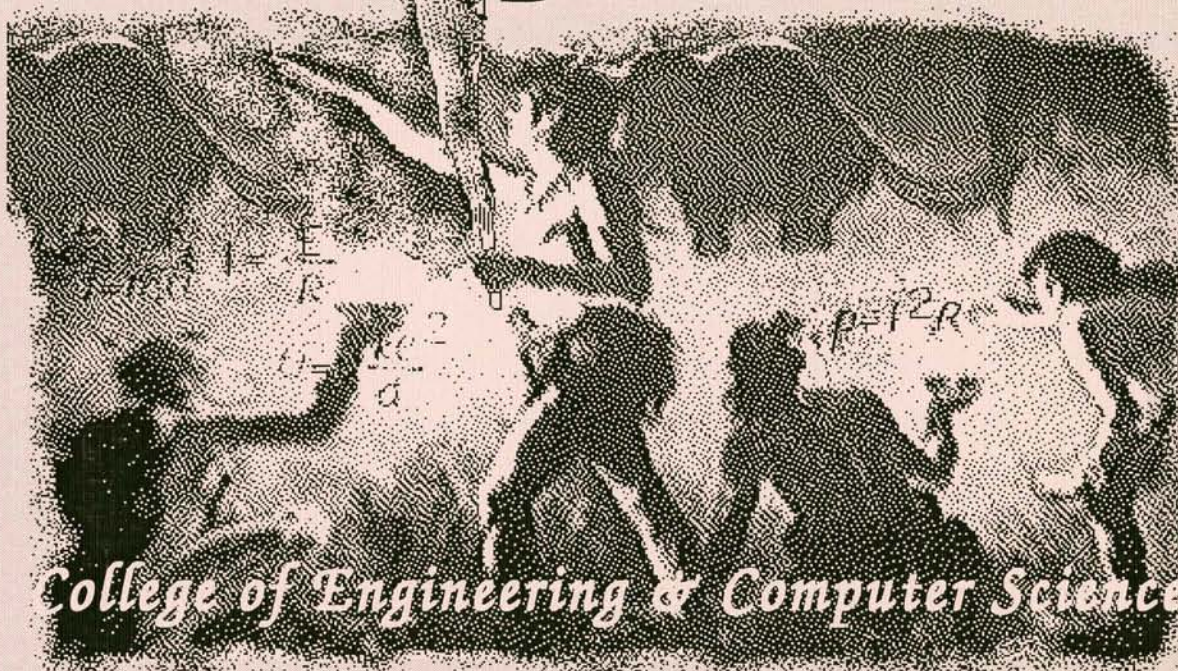
Highest Honors

Materials Science Engineering

Alexander T. Hutter

High Honors

Club Fair 97



College of Engineering & Computer Science

Wright State University

You're invited to meet with representatives from our clubs

- ✓ Find Out What's Happening
- ✓ Check out the displays
- ✓ Enjoy refreshments
- ✓ Join a club and become eligible for a door prize
(drawing after the fair - you need not be present to win)

Friday, October 31, 11 A.M. - 1 P.M., Russ Center Lobby



Amateur Radio Club

American Institute for Aeronautics and Astronautics

American Society of Mechanical Engineers

American Society of Metals International

Association for Computing Machinery

Biomedical Engineering Society

Human Factors and Ergonomics Society

Institute of Electrical and Electronics Engineers

Institute of Electrical and Electronics Engineers Computer Society

National Society of Black Engineers

Ohio Society of Professional Engineers

Society of Automotive Engineers

Society of Women Engineers

Student Government

Tau Beta Pi

Wright Engineering Council

Important Dates To Remember . . .

October 17	— Winter Class Schedules due out
October 21	— Last day for all but freshmen to drop a class
October 25	— Senior Winter Registration Begins
October 26	— Graduate/Unclassified Winter Registration Begins
October 31	— Club Fair, 11 A.M. to 1 P.M., Russ Center Lobby
November 1	— Junior Winter Registration Begins
November 8	— Sophomore Winter Registration Begins
November 11	— Veteran's Day—University Closed
November 12	— Last day for freshmen to drop class with a record of "W"
November 15	— Freshman Winter Registration Begins
November 25	— Last day of Fall Quarter classes
November 26	— No classes, University open
November 27 & 28	— Thanksgiving Holiday—University Closed
December 1-6	— Final Exam Week
December 6	— Commencement



Wright State University

College of Engineering and Computer Science
3640 Colonel Glenn Hwy.
Dayton, Ohio 45435-0001

Office of the Dean